

Section A  
Multiple Choice Questions (MCQ's)

Q-01: Choose the correct answer for each from the given option.

- (i) The work will be positive, if the angle between force and displacement is  
(a)  $90^\circ$  (b)  $180^\circ$  (c)  $0^\circ$  (d)  $270^\circ$
- (ii) The objective of a refracting telescope is a \_\_\_\_\_  
(a) Double convex lens (b) Convex mirror  
(c) Plane mirror (d) Concave mirror
- (iii) If vector sum of all the forces on a body is equal to zero, then it is said to in \_\_\_\_\_  
(a) Translational equilibrium (b) Rotational equilibrium  
(c) Static equilibrium (d) Dynamic equilibrium
- (iv) In transverse waves the distance between two consecutive crests is called \_\_\_\_\_  
(a) Displacement (b) Wave length (c) Velocity (d) None of them
- (v) Pin hole camera was invented by \_\_\_\_\_  
(a) Al-Beruni (b) Al Kindi  
(c) Al-Khawarizmi (d) Ibn ul Hatham
- (vi) The least count of the micrometer screw gage is \_\_\_\_\_  
(a) 0.001 cm (b) 0.01 cm (c) 0.1 cm (d) 1 cm
- (vii) "G" is called \_\_\_\_\_  
(a) Gravitational acceleration (b) Gravitational force  
(c) Gravitational constant (d) None of them
- (viii) Archimede's principle is applied to determine.  
(a) specific ehat (b) specific gravity  
(c) Specific resistance (d) None of these
- (ix) Electromagnetic waves carries \_\_\_\_\_  
(a) wave length (b) Frequency (c) charge (d) Energy
- (x) To measure current in a circuit an ammeter is always connected \_\_\_\_  
(a) in series (b) in parallel (c) in any way  
(d) Parallel to voltmeter
- (xi) If  $\vec{F}_x$  and  $\vec{F}_y$  are rectangular components of a force  $\vec{F}$ , then  $\vec{F} =$  \_\_\_\_  
(a)  $\vec{F}_x + \vec{F}_y$  (b)  $\vec{F}_x + \vec{F}_y$  (c)  $\sqrt{\vec{F}_x + \vec{F}_y}$  (d)  $\sqrt{\vec{F}_x^2 + \vec{F}_y^2}$
- (xii) A pair of scissors is an example of a \_\_\_\_\_  
(a) Pulley (b) Lever (c) Wheel and Axle  
(d) Inclined Plane
- (xiii) In the system of international the unit of specific heat is \_\_\_\_\_  
(a)  $\text{J.Kg}^{-1} \text{K}^{-1}$  (b)  $\text{J.Kg}^{-1}$  (c) J/s (d) None of them
- (xiv) If the inner surface of a spherical mirror is reflecting, it is called \_\_\_\_  
(a) Plane mirror (b) Concave mirror  
(c) Convex mirror (d) None of these
- (xv) In a gas discharge tube the electric current is due to flow of \_\_\_\_\_  
(a) Electrons (b) Positive ions (c) Negative (d) Neutrons
- (xvi) Which is more penetrating?  
(a)  $\alpha$  Rays (b)  $\beta$  rays (c)  $\gamma$  rays (d) None of them
- (xvii) Which is the best approximation of the weight of an object of mass 800 grams?  
(a) 80 N (b) 8 N (c) 0.8 N (d) 800 N